

CHM1025 INTRODUCTORY CHEMISTRY

SUMMER B 2017

INSTRUCTOR INFORMATION

| Instructor | Email | Office Location & Hours |
|--------------|-----------------------------|-------------------------|
| Chris Roland | Email in Canvas <u>only</u> | JHH 105 TWRF 2PM - 3PM |

TEACHING ASSISTANTS

Office hours and locations for undergraduate "Peer Mentors" will be posted on the Syllabus page in Canvas. You can seek help from any TA holding office hours in the Chemistry Learning Center (CLC), JHH 105. Broward Teaching Center offers free walk-in help at scheduled times for CHM1025 students and often holds exam review sessions. See their website for details.

GENERAL INFORMATION

COREQUISITES

MAC1147 or the equivalent is a published corequisite. Check the Course Catalog for math requirements to continue in general chemistry sequence. The math requirement is strictly enforced for CHM2045/46.

MEETING TIMES

MTWF period 6 (3:30-4:45) in FLI 50.

DESCRIPTION

CHM 1025, a two-credit course, is offered for students who wish to strengthen their understanding of basic concepts of atomic structure and stoichiometry before beginning the general chemistry sequence (CHM 2045/2045L, CHM 2046/2046L). This introductory readiness course in general chemistry is for those with weak yet satisfactory backgrounds in high school chemistry and algebra. (P)

A grade of C or better is required for progression for CHM2045. There is no rounding of grades - see the grade breakdown at the end of this document.

REQUIRED COURSE MATERIALS

TEXTBOOK

A significant portion of your grade stems from electronic homework (ALEKS) associated with an ebook (*Introduction to Chemistry*, Bauer, Birk and Marks, 4th ed., McGraw-Hill). There are two options for purchasing access to homework/ebook: **Option 1:** consent to have the purchase price charged to your student account following the directions posted on the course homepage in Canvas; this is a time-limited option after which only Option 2 is available. **Option 2:** purchase an access code for the materials at the UF Bookstore (at a slightly higher price).

A paperback version of the text is completely optional. The bookstore may stock paper versions of the text, or you can order one directly through ALEKS. A paper version is on reserve at the Marston Science Library for reference purposes.

COURSE TECHNOLOGY

All UF students are expected to have reliable access to a computer. Suggested configurations may be found here: <https://it.ufl.edu/policies/student-computing-requirements/>

COURSE COMMUNICATIONS

The instructor can be contacted via the mail function in Canvas. Allow 24 h for a response (48 h over weekends). Questions related to your grade or ANY other grading concern may not be discussed via email; grades are discussed in person only. Emails are not intended for distance learning. Course announcements will typically be made during lecture and are not always repeated by email. If a student is absent from lecture it is his/her responsibility to ask a trusted classmate what he/she missed.

EXAMS

DATES

Two exams (Friday July 7th and Friday July 21st) and one cumulative final exam (Wednesday August 2nd)

POLICIES

There are no dropped exam scores.

Any and all exam grade disputes or Scantron confirmations must be performed within 4 business days of the scheduled exam date (e.g. for a Thursday exam, if you would like to review your Scantron you must do so by Wednesday the following week). The exception is the final exam, due to time restrictions. If you would like to review the final exam Scantron you must do so during the first two weeks of fall 2017 term.

Scantron errors are nonnegotiable and could result in loss of points. This includes form code errors, registry errors, and name and UFID bubbling errors. Students may not use graphing or programmable calculators on exams. You may use scientific calculators with exponent capability. No other device may be used as a calculator (cell phones, iPods, etc.). No spare calculators will be available for student use during exams, nor will spare batteries.

GENERAL CHEMISTRY EXAM ABSENCE POLICY

A conflict exam/quiz will be offered to those students with [valid conflicts](#). It is your responsibility to identify yourself as requiring such accommodation at least one week prior to a scheduled quiz/exam. Also see the [General Chemistry Exam Absence Policy](#).

MAKE-UP POLICY

Conflict exams are offered to students with well-documented, UF-approved reasons (see the undergraduate catalog). Such exams are offered in advance of the scheduled exam time. It is your responsibility to identify yourself as requiring such accommodation at least one full week prior to the scheduled exam. If you fail to do so it may not be possible to accommodate your conflict request. There are no make-up exams

in general chemistry at the University of Florida. Refer to the General Chemistry Exam Absence Policy above.

ASSIGNMENT POLICY

ALEKS OBJECTIVES

Access the electronic homework and ebook directly from within Canvas. A significant portion of your grade stems from on-time completion of equally weighted ALEKS objectives. Whatever percentage of the topics you complete on time within an objective will count for credit - i.e. if you complete 7 of 10 topics within a particular objective assignment you will earn 70% credit for that objective, or 7/10 points for that objective. The average completion time is approximately 3 topics/h, system-wide in the ALEKS system.

ALEKS is set up in a specific manner - you will need to complete some topics in order to proceed to the next topic, as topics and concepts in chemistry build on one another. There isn't a way to disable this setting. You are encouraged to work on assignments early and frequently for short periods of time, no more than 2 or 3 h at a sitting.

The two lowest ALEKS Objectives grades are dropped from your overall course grade.

ALEKS PIE

A significant portion of your grade stems from completion of your ALEKS pie by the last day of term (Aug. 4th 2017 @ 11:59 pm EST). The work you do on ALEKS objectives counts towards this goal. You can catch up or work ahead on your pie progress during Open Pie periods. There are regularly scheduled Open Pie times for all students in the course. Whenever you complete an ALEKS objective before its due date/time you also will enter Open Pie mode.

Contact ALEKS support for tech help with ALEKS or for grading disputes.

TOPHAT

We will use TopHat as a classroom response system in this course. TopHat will be counted for credit beginning 6/28, immediately after Drop/Add. You must bring a web-enabled device to each class to participate. TopHat questions will most often be completed during class, however in some cases questions may be opened outside of class time.

Questions are each worth one point, 0.5 pts for participation and 0.5 pts for correctness. To account for missed questions or absences from class, the total TopHat points possible will be calculated at the end of term to equal 90% of the TopHat points available. You cannot earn >100% of the points possible.

EXTENSIONS

Extensions for assignments (exams are covered under the General Chemistry Exam Absence Policy) can be requested due to illness or emergent situations. You will be asked to have your situation verified by the Dean of Students Office before such an extension is considered. Information on requesting an excuse note can be found here: <https://www.dso.ufl.edu/care/courtesy-letters/>

Exam dates are firm, and all assignments must be completed by the last day of term.

GRADING

GRADE POLICY

There is no extra credit available for this course beyond the bonus points available for discussion assignments, and the generous dropped assignment policy. Grades are not rounded at the end of term. Exam grades or course grades are not curved.

Assignments weights are as follows:

| Assignment Group | Weight % |
|---------------------------------|----------|
| ALEKS Objectives | 10% |
| ALEKS Pie Progress | 10% |
| Progress Exams (2 @ 22.5% each) | 45% |
| Cumulative Final Exam | 25% |
| TopHat | 10% |

Grade scale (note: there is no rounding to your score in Canvas):

| Letter | A | A- | B+ | B | B- | C+ | C | D+ | D | D- | F |
|--------|------|------|------|------|------|------|------|------|------|------|--------|
| Cutoff | 90.0 | 87.0 | 84.0 | 80.0 | 76.0 | 73.0 | 67.0 | 63.0 | 59.0 | 55.0 | < 55.0 |

UNIVERSITY POLICIES

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES

Students requesting accommodation for disabilities must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drc/>). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT

As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity." You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida. The following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your

obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: <http://www.dso.ufl.edu/SCCR/honorcodes/honorcode.php>."

U MATTER, WE CARE

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing Staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

FEEDBACK

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

NETIQUETTE

All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions, and chats. <http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf>

GETTING HELP

For issues with or technical difficulties with Canvas, contact the UF Help Desk: <https://lss.at.ufl.edu/help.shtml>; (252)-392-HELP.

Other resources are available at <http://www.distance.ufl.edu/getting-help> for Counseling and Wellness resources, disability resources, resources for handling student concerns and complaints, and library desk support.

GENERAL EDUCATION

This course satisfies the General Education requirement in the Physical Sciences.

PHYSICAL SCIENCE GENERAL EDUCATION PROGRAM OBJECTIVES

Physical science courses provide instruction in the basic concepts, theories and terms of the scientific method in the context of the physical sciences. Courses focus on major scientific developments and their impacts on society, science and the environment, and the relevant processes that govern physical systems.

Students will formulate empirically-testable hypotheses derived from the study of physical processes, apply logical reasoning skills through scientific criticism and argument, and apply techniques of discovery and critical thinking to evaluate outcomes of experiments.

These objectives are accomplished through participation in the course, and individual work done on homework assignments and assessments.

GENERAL EDUCATION STUDENT LEARNING OUTCOMES

| Area | Institutional Definition | Institutional SLO |
|--------------------------|---|---|
| CONTENT | Content is knowledge of the concepts, principles, terminology and methodologies used within the discipline. | Students demonstrate competence in the terminology, concepts, methodologies and theories used within the discipline. |
| COMMUNICATION | Communication is the development and expression of ideas in written and oral forms. | Students communicate knowledge, ideas, and reasoning clearly and effectively in written or oral forms appropriate to the discipline. |
| CRITICAL THINKING | Critical thinking is characterized by the comprehensive analysis of issues, ideas, and evidence before accepting or formulating an opinion or conclusion. | Students analyze information carefully and logically from multiple perspectives, using discipline specific methods, and develop reasoned solutions to problems. |

Naturally, all three areas of learning outcomes will be assessed in all categories of graded assignment administered in CHM1025.

SPECIFIC GOALS OF CHM1025

You will be required to analyze scientific concepts and think critically. This means being able to answer both quantitative (mathematical) and conceptual (quantitative) problems in a limited period of time. Additionally, you will have to write and/or orally communicate on discussion assignments, written assignments, and in discussion with your instructor/TA. We will also demonstrate how these topics can be applied to the scientific method and how observation and experimentation leads us to the development of scientific theories. You will be required to utilize the methods of science as a logical means of problem solving through critical thinking. This means you must analyze information carefully and logically from multiple perspectives, using discipline specific methods, and develop reasoned solutions to problems. To ensure your competency in these concepts you will be required to complete quizzes and assignments that require critical thinking, analysis of problems, and drawing conclusions.

COURSE LEARNING OUTCOMES

A complete list of student learning outcomes is posted in Canvas.

DISCLAIMER

This syllabus represents my current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.